

# *MAINTENANCE UNIVERSITY*

## *A Concept and a Plan*



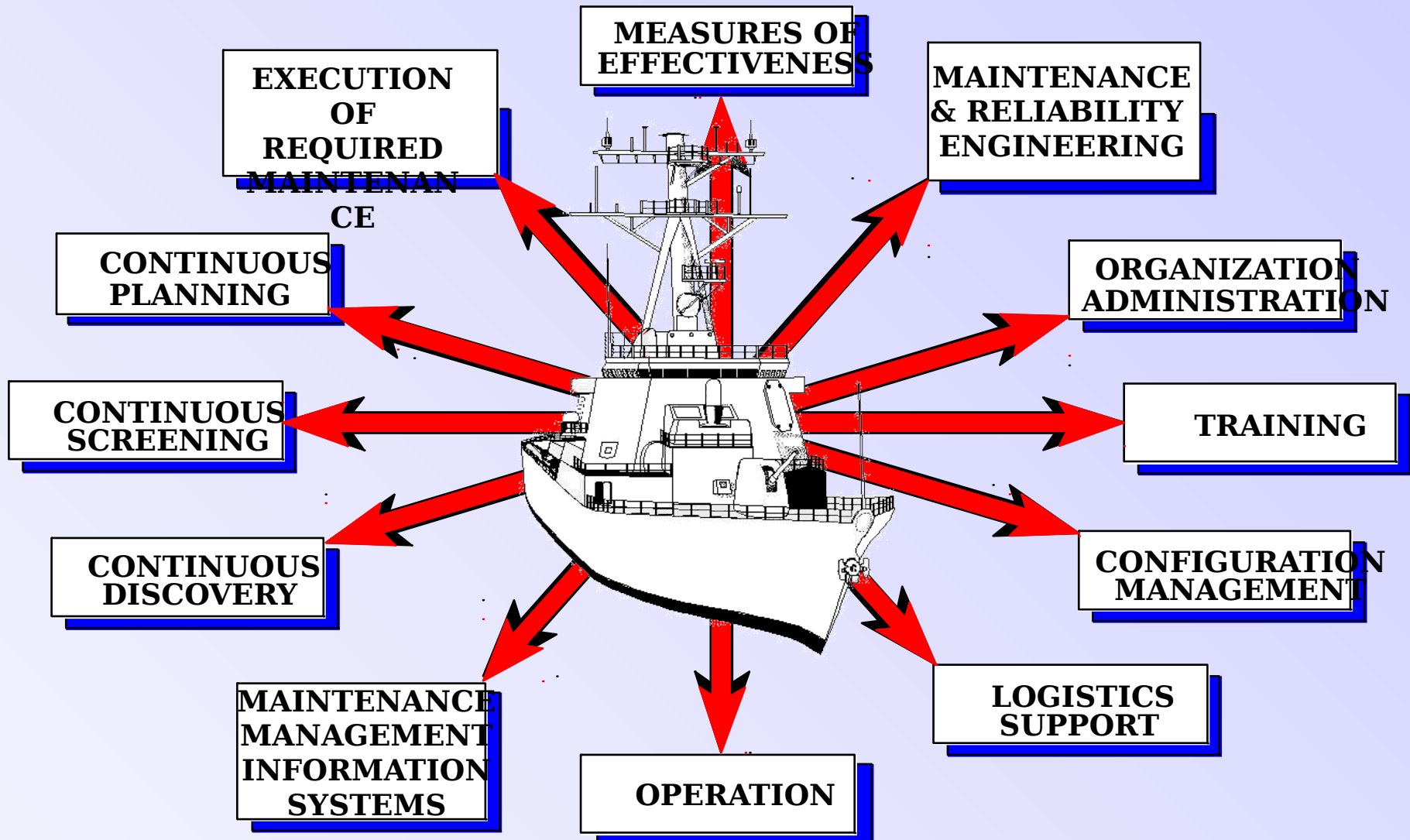
Better Maintenance  
Sustained Material Readiness  
... Through Knowledge

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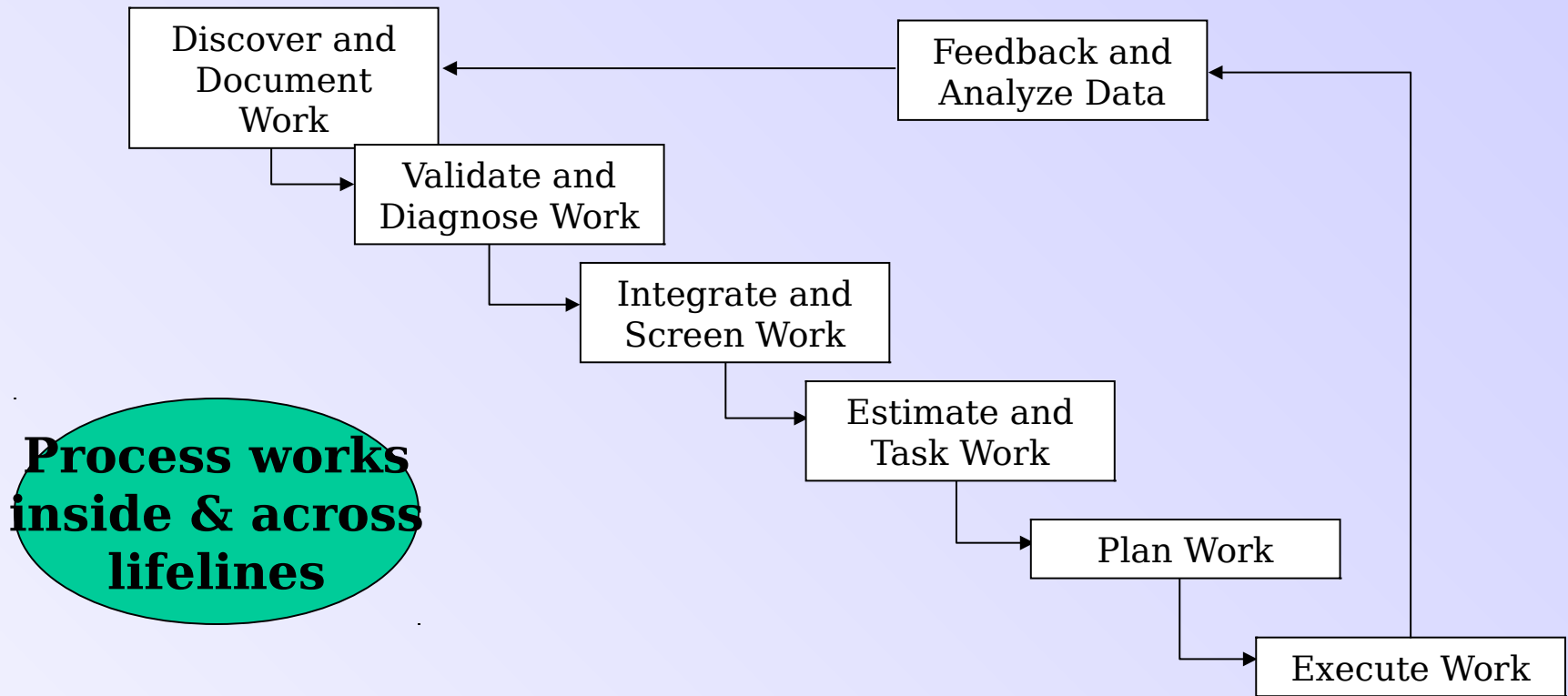
<http://musrv.spear.navy.mil/main>  
or  
<http://www.spear.navy.mil/>

# *Ship Maintenance Management*

## *Engineered, Holistic, and Systemic*



# *Coordination of the Integrated Fleet Maintenance Management Process*

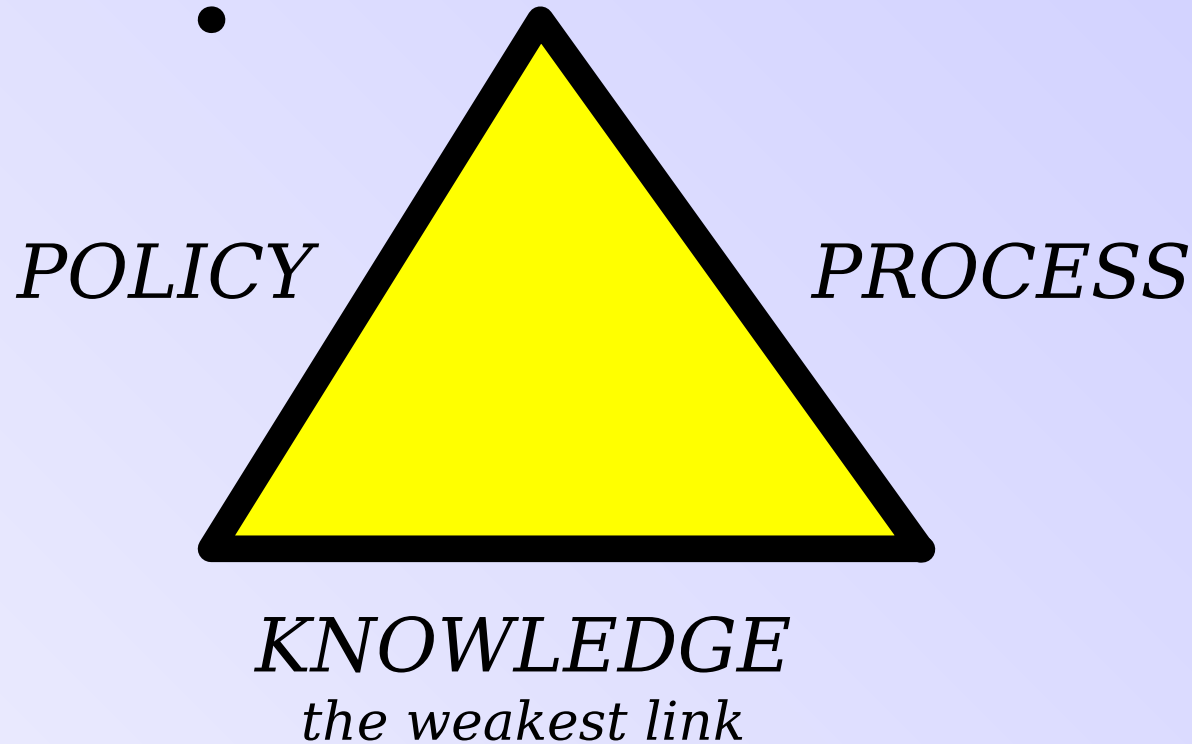


**Maintenance Management and Configuration  
Management  
linked every step of the way**

# *Operational Challenges Require*

- *Greater ship operational availability*
  - Same commitments
  - Smaller force
- *Less maintenance*
  - Reduced budgets
  - Fewer, shorter industrial availabilities
- *A focused maintenance strategy*
  - That must**
    - ...sustain material readiness**
    - ...improve maintenance productivity**

# *Maintenance Strategy Implementation Requires Merging:*



- *Maintenance education & training not keeping pace*
  - *Reliance on knowledge based on*
    - *General awareness briefings*
    - *Self-study of applicable directives*
- *Shipboard personnel turnover exacerbates issue*

# *Why Maintenance University?*

## *Improve the knowledge side of the triangle*

- *Functions previously accomplished by PERA Surface*
- *Inform and educate*
  - *Maintenance strategy and policy*
- *Train*
  - *Maintenance managers*
    - *Process*
    - *Techniques to reduce duration & scope of major scheduled availabilities*
  - *Ships' crews*
    - *Preparation for & efficient execution of emergent & scheduled availabilities*

# *MU Addresses*

## *Current Surface Force Priorities*

- *Assessment Process*
  - *Improve Self & Leverage Outside Assessments*
  - *Changing Maintenance Management Business Rules*
- *CSMP*
  - *Creation, Management, and Validity*
- *PMS*
  - *Beyond Inspections*
- *Maintenance Requirements*
  - *What are they...How do we define*
  - *Better Execution...Availability Management*

# *Maintenance University Products*

- *Six Tailored Seminars*
- *Best Practices and Benchmark Products*
  - *Integrated Readiness Planning (BP)*
  - *Available S/F Man-hours (BP)*
  - *Ship System Experts (BP)*
  - *Zone Inspection Guide*
  - *ZI Video(s)*
  - *INSURV Prep Package*
  - *Shipboard Maintenance Manager's Handbook*
- *Web Site Gateway*
  - *Electronic maintenance management PDL*
  - *Course materials*
  - *References*
  - *Lessons learned: Availabilities, INSURV, special maintenance events*



# *Six Tailored Seminars*

- *Maintenance University Seminars*
  - *Command*
    - *Includes tailored MINWAR P-CHENG*
  - *Division*
  - *Work Center Supervisor*
  - *3-M Coordinator*
  - *Ship System Expert Introduction*
  - *TDO / Shore Maintenance Manager*
    - *Inaugural presentation very soon*

# *Best Maintenance Practices*

- *Recommendations not directives*
- *Proven practices that are successful*
- *Access via SURFLANT Maintenance Web Site*
- *Approved Best Maintenance Practices*
  - *Ship System Experts (SSE)*
  - *Integrated Readiness Plan*
  - *Planning Board for Readiness*
  - *Division In the Spotlight*

# *Maintenance University Web Site*

- *Access via SURFLANT Maintenance Web Site*
- *Provides on-line access to computer-based courses*
- *Provides information on maintenance availability management and related training*
- *Includes maintenance management lessons learned*
  - *depot and overseas availabilites*
  - *paint teams*
  - *special evolutions*

# *Keeping Current*

- *Maintain Current Instructions*
  - *Really Read Them*
- *Network Across the Waterfront*
- *Ask The Why's and What Is The Reference*
  - *Paper Trail*
    - *CMI/IP's and WFIP*
    - *Message Traffic*

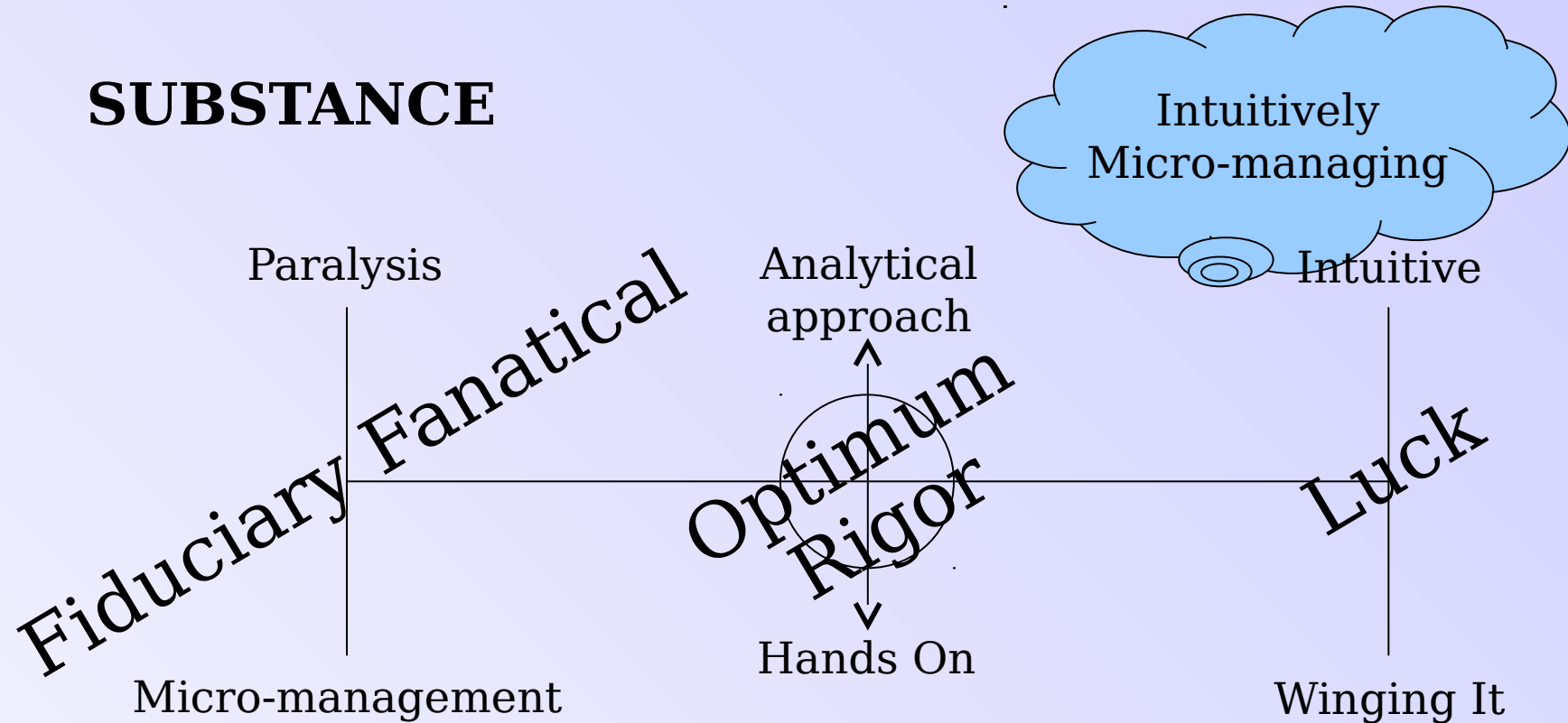
*A change is announced Tuesday, is being taught  
Thursday*

# *The Right Stuff*

- *Teaching the US Navy maintenance strategy and process including implications*
- *How to self assess and take action including follow up*
- *How leverage out side assessments*
- *How to balance self sustainability and asking for outside help*
- *Increasing value added of PMS*
- *How to write and process work candidates*
- *How to reconcile shore and ship CSMPs using tools provided by SURFLANT*
- *How to determine off ship work assignment*
- *Understand the Inter-Deployment Cycle (IDC)*
- *Show how each step of the IDC process is dependent on each other*
- *How to build and manage an Integrated Readiness Plan*
- *How to leverage maintenance availability milestones*
- *How to build a work package and review bid specifications*
- *Where standard items are found and how to use them*
- *How to plan a job*
- *How to provide work oversight*
- *Teaching every thing a Sailor does is work*
- *How to determine available ship's force man hours for all work*

# Questions?

**SUBSTANCE**

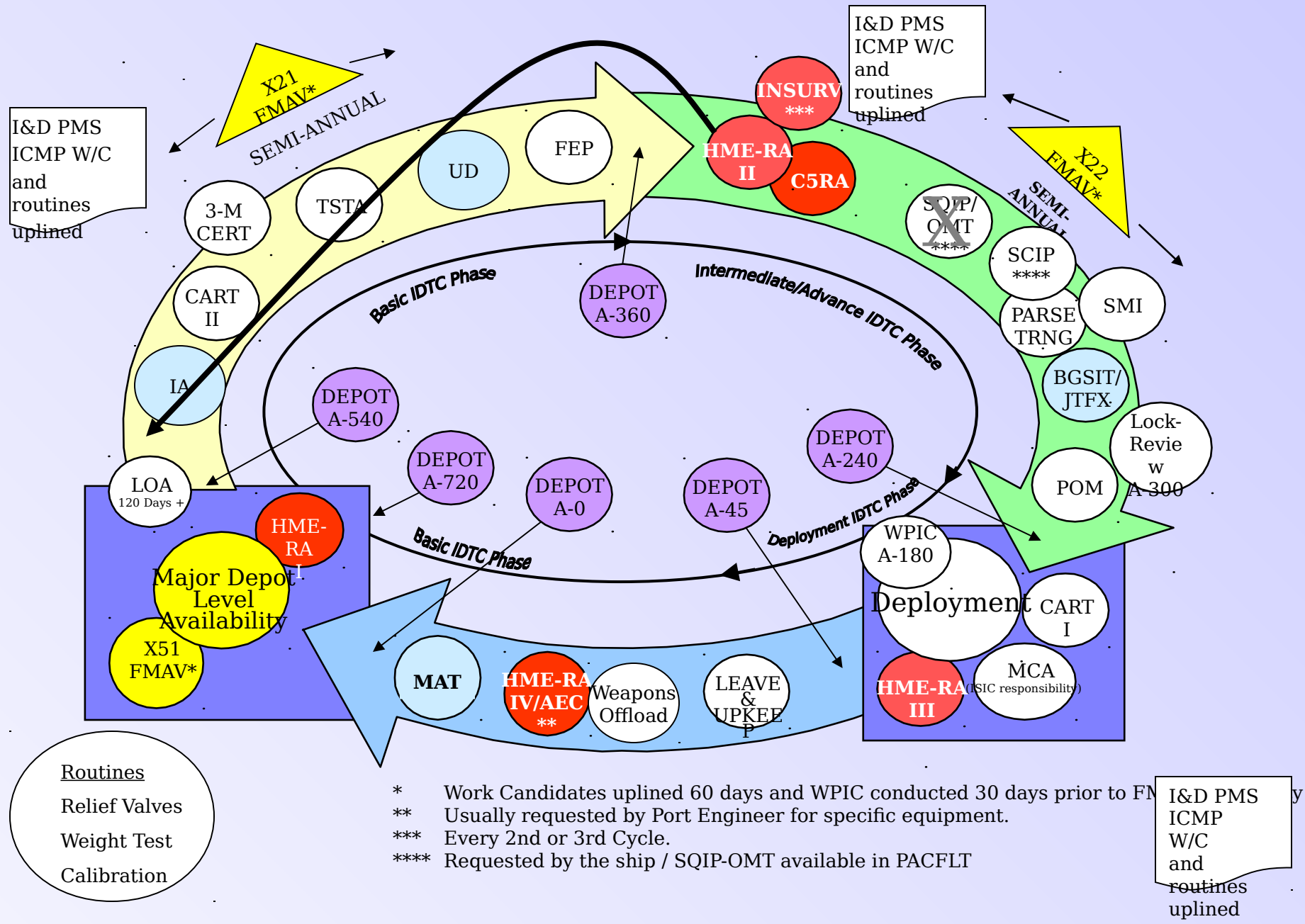


**FORM**

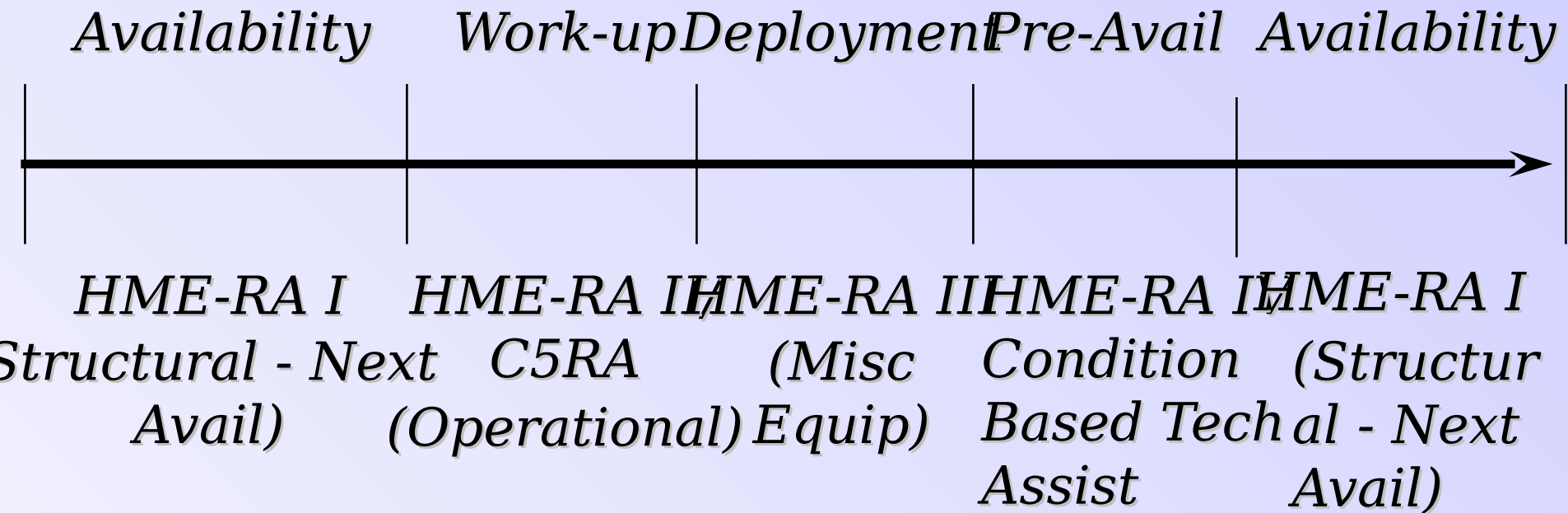
Management 101

Back-Up Slides

## *IDTC - Operating & Maintenance Cycle*



# Continuous Maintenance Material Assessment Process



*Master Assessment Index (MAI) lists universe of assessment tasks, indicates recommended time frames, and assessing activity*



# *MU CO Course Comments*

- *Expand MU; teach it to all our shipboard officers & senior enlisted*
- *Great course. Brings a little of the SOSMRC mentality back into the pipe line*
- *Anything this course can do to re-emphasize self assessment techniques and teach them to DivO/DH/XO level officers will pay off in better material condition*

# *Assessment Process*

- *Ship's Self Assessment*
  - *Material Condition and Material Readiness*
  - *Other Areas*
- *Outside Assessments Certifications & Inspections*
  - *3-M Assessment and Certification*
  - *SEMAT and C5RA*
  - *Certifications*
  - *INSURV*

# *CSMP Management*

- *Creation Of A Usable Document*
  - *Starts with individual Work Candidate*
  - *Continues with validation of each Work Candidate*
  - *Hands on management of CSMP over time*
- *CSMP Validity*
  - *Key element of MU*
  - *Tools to enable*
    - *Management of CSMP files*
    - *Prioritize, the urgency of the repair*
    - *Advocating work beyond the lifelines*

# *PMS*

- *SKED - The PMS scheduling tool*
  - *Time Based Checks*
    - *Number of checks reduced by SURFMER*
  - *Situational*
    - *Not getting scheduled*
- *Spot Checks*
  - *Discovering time based checks not accomplished*
- *3-M Certification*
  - *Only looks at part of the ship maintenance continuum*

# *Maintenance Requirements*

- *What Are They?*
- *How Do We Manage?*
  - *Milestones*
- *How to Get the Most From a Maintenance Dollar?*
  - *Ship's Force Available Man Hours*
    - *Capability and capacity*
  - *Bid Specification Review*
    - *Are we getting what we are asking for*
    - *Provided at a constant rate or bulk*
  - *Milestones and Key Events*
    - *Short availabilities make management critical*
- *PB for R and the Integrated Readiness Plan*

# ***UNCONSCIOUS COMPETENCE***

